

SEQUENCE LISTING

<110> Kantor, Aaron B.
Schulman, Howard
Becker, Christopher

<120> BIOMARKERS FOR RHEUMATOID ARTHRITIS

<130> SURR.121

<150> US 60/455,037

<151> 2003-03-14

<160> 395

<170> PatentIn version 3.2

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Leu	Tyr	Tyr	Gly	Ser	Lys
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His Ala Asp Pro Asp Phe Thr Arg
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Asp Lys Leu Ala Ala Cys Leu Glu Gly Asn Cys Ala Glu Gly Leu Gly
1 5 10 15

Thr Asn Tyr Arg
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<210> 128

<211> 15
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<213> Homo sapiens

<400> 128

Val Gly Ala His Ala Gly Glu Tyr Gly Ala Glu Ala Leu Glu Arg
1 5 10 15

<210> 129
<211> 30
<212> PRT
<213> Homo sapiens

<400> 129

Lys Val Ala Asp Ala Leu Thr Asn Ala Val Ala His Val Asp Asp Met
1 5 10 15

Pro Asn Ala Leu Ser Ala Leu Ser Asp Leu His Ala His Lys
20 25 30

<210> 130
<211> 29
<212> PRT
<213> Homo sapiens

<400> 130

Val Ala Asp Ala Leu Thr Asn Ala Val Ala His Val Asp Asp Met Pro
1 5 10 15

Asn Ala Leu Ser Ala Leu Ser Asp Leu His Ala His Lys
20 25

<210> 131
<211> 14
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<400> 131

Leu Leu Asp Asn Trp Asp Ser Val Thr Ser Thr Phe Ser Lys
1 5 10

<210> 132
<211> 11
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<213> Homo sapiens

<400> 132

Gln Gly Leu Leu Pro Val Leu Glu Ser Phe Lys
1 5 10

<210> 133
<211> 20
<212> PRT
<213> Homo sapiens

<400> 133

Gln Ser Asn Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro
1 5 10 15

Glu Gln Trp Lys
20

<210> 134
<211> 19
<212> PRT
<213> Homo sapiens

<400> 134

Leu Gln Gln Val Leu His Ala Gly Ser Gly Pro Cys Leu Pro His Leu
1 5 10 15

Leu Ser Arg

<210> 135
<211> 9
<212> PRT
<213> Homo sapiens

<400> 135

Gln Val Glu Gly Met Glu Asp Trp Lys
1 5

<210> 136
<211> 17
<212> PRT
<213> Homo sapiens

<400> 136

Glu Gln Leu Gly Glu Phe Tyr Glu Ala Leu Asp Cys Leu Cys Ile Pro
1 5 10 15

Arg

<210> 137
<211> 7
<212> PRT
<213> Homo sapiens
-
<400> 137

Met Leu Ser Leu Gly Thr Lys
1 5

<210> 138
<211> 7
<212> PRT
<213> Homo sapiens

<400> 138

Ala Thr Gly Ile Pro Asp Arg
1 5

<210> 139
<211> 15
<212> PRT
<213> Homo sapiens

<400> 139

Glu Glu Glu Gln Gln Arg Cys Glu Ser Leu Ala Glu Val Asn Thr
1 5 10 15

<210> 140
<211> 12
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<400> 140

Met Asn Gln Leu Thr Gln Glu Leu Phe Ser Leu Lys
1 5 10

<210> 141
<211> 8
<212> PRT
<213> Homo sapiens

<400> 141

Val Thr Ser Thr Leu Thr Ile Lys

1 5

<210> 142
<211> 13
<212> PRT
<213> Homo sapiens

<400> 142

Asn Val Pro Leu Pro Val Ile Ala Glu Leu Pro Pro Lys
1 5 10

<210> 143
<211> 16
<212> PRT
<213> Homo sapiens

<400> 143

Val Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys
1 5 10 15

<210> 144
<211> 17
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<213> Homo sapiens

<400> 144

Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
1 5 10 15

Lys

<210> 145
<211> 10
<212> PRT
<213> Homo sapiens

<400> 145

Leu Pro Glu Cys Glu Ala Val Cys Gly Lys
1 5 10

<210> 146
<211> 19
<212> PRT
<213> Homo sapiens

<400> 146

Arg Leu Tyr Gly Ser Glu Ala Phe Ala Thr Asp Phe Gln Asp Ser Ala
 1 5 10 15

Ala Ala Lys

<210> 147
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 147

Glu His Ala Val Glu Gly Asp Cys Asp Phe Gln Leu Leu Lys
 1 5 10

<210> 148
 <211> 20
 <212> PRT
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 <222> (5)..(5)
 <223> carboxymethylation

<220>
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 <222> (14)..(14)
 <223> carboxymethylation

<400> 148

Lys Glu Asp Ser Cys Gln Leu Gly Tyr Ser Ala Gly Pro Cys Met Gly
 1 5 10 15

Met Thr Ser Arg
 20

<210> 149
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 149

Glu Gln Leu Thr Pro Leu Ile Lys
 1 5

<210> 150
<211> 10
<212> PRT
<213> Homo sapiens

<400> 150

Glu Gln His Pro Asp Met Ser Val Thr Arg
1 5 10

<210> 151
<211> 13
<212> PRT
<213> Homo sapiens

<400> 151

Ala Gly Ala Leu Asn Ser Asn Asp Ala Phe Val Leu Lys
1 5 10

<210> 152
<211> 19
<212> PRT
<213> Homo sapiens

<400> 152

Gly Ser Leu Val Gln Ala Ser Glu Ala Asn Leu Gln Ala Ala Gln Asp
1 5 10 15

Phe Val Arg

<210> 153
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)..(8)
<223> carboxymethylation

<400> 153

Ile Ala Ser Phe Ser Gln Asn Cys Asp Ile Tyr Pro Gly Lys
1 5 10

<210> 154
<211> 33
<212> PRT

<213> Homo sapiens

<400> 154

Cys Gly Leu Val Pro Val Leu Ala Glu Asn Tyr Lys Ser Gln Gln Ser
1 5 10 15

Ser Asp Pro Asp Pro Asn Cys Val Asp Arg Pro Val Glu Gly Tyr Leu
20 25 30

Ala

<210> 155

<211> 10

<212> PRT

<213> Homo sapiens

<400> 155

Ile Ser Asn Ile Pro Asp Glu Tyr Phe Lys
1 5 10

<210> 156

<211> 11

<212> PRT

<213> Homo sapiens

<400> 156

Ser Leu Glu Asp Leu Gln Leu Thr His Asn Lys
1 5 10

<210> 157

<211> 9

<212> PRT

<213> Homo sapiens

<400> 157

Gln Asn Gly Gly Leu Ala Thr Val Glu
1 5

<210> 158

<211> 15

<212> PRT

<213> Homo sapiens

<220>
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<222> (1)..(1)
<223> oxidation

<220>
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<222> (2)..(2)
<223> carboxymethylation

<220>
<221> misc_feature
<222> (10)..(10)
<223> carboxymethylation

<400> 158

Met Cys Glu Gln Ala Leu Gly Lys Gly Cys Gly Gly Asp Ser Lys
1 5 10 15

<210> 159
<211> 18
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)..(8)
<223> carboxymethylation

<400> 159

Leu Leu Asn Leu Asp Gly Thr Cys Ala Asp Ser Tyr Ser Phe Val Phe
1 5 10 15

Ser Arg

<210> 160
<211> 10
<212> PRT
<213> Homo sapiens

<400> 160

Ala Gly Lys Ser Thr Phe Leu Lys Lys His
1 5 10

<210> 161
<211> 18
<212> PRT
<213> Homo sapiens

<400> 161

Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
1 5 10 15

Glu Arg

<210> 162

<211> 12

<212> PRT

<213> Homo sapiens

<400> 162

Glu Gly Leu Cys Cys Gly Pro Ser Ile Pro Pro Val
1 5 10

<210> 163

<211> 8

<212> PRT

<213> Homo sapiens

<400> 163

Ala Ala Tyr Met Asn Lys Glu Arg
1 5

<210> 164

<211> 11

<212> PRT

<213> Homo sapiens

<400> 164

Tyr Tyr Cys Phe Gln Gly Asn Gln Phe Leu Arg
1 5 10

<210> 165

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<222> (7)..(7)

<223> carboxymethylation

<400> 165

Gly Gly Cys Leu Pro Pro Cys Asp Gly Gly Pro Lys Ser Arg
1 5 10

<210> 166
<211> 12
<212> PRT
<213> Homo sapiens

<400> 166

Ala Ser Asp Asp Asp Val Gly Glu Asn Ala Arg Ile
1 5 10

<210> 167
<211> 9
<212> PRT
<213> Homo sapiens

<400> 167

Glu Glu Ala Ile Ala Val Thr Met Arg
1 5

<210> 168
<211> 14
<212> PRT
<213> Homo sapiens

<400> 168

Tyr Asn Pro Asp Ser Gly Leu Glu Val Leu Ala Val Gln Arg
1 5 10

<210> 169
<211> 10
<212> PRT
<213> Homo sapiens

<400> 169

Ile Val Asp Leu Val Lys Glu Leu Asp Arg
1 5 10

<210> 170
<211> 18
<212> PRT
<213> Homo sapiens

<400> 170

His Lys Leu Ile His Thr Gly Val Lys Ser His Ala Cys Glu Gln Cys
1 5 10 15

Gly Lys

<210> 171
<211> 18
<212> PRT
<213> Homo sapiens

<400> 171

Val Phe Trp Arg Ser Ser Gly Leu Pro His Pro Ser Gln Ala Gln Ser
1 5 10 15

Ala Arg

<210> 172
<211> 16
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)..(7)
<223> carboxymethylation

<400> 172

Gly Asn Ala Leu Ser Val Cys Ser Arg Glu Ser Pro Gly Ser Lys Lys
1 5 10 15

<210> 173
<211> 36
<212> PRT
<213> Homo sapiens

<400> 173

Cys Leu Gln Arg Ile Val Thr Lys Leu Gln Met Glu Ala Gly Leu Cys
1 5 10 15

Glu Glu Gln Leu Asn Gln Ala Asp Ala Leu Leu Gln Ser Asp Val Arg
20 25 30

Leu Leu Ala Ala
35

<210> 174
<211> 20
<212> PRT
<213> Homo sapiens

<400> 174

Ile Ile Thr His Pro Asn Phe Asn Gly Asn Thr Leu Asp Asn Asp Ile
1 5 10 15

Met Leu Ile Lys
20

<210> 175
<211> 15
<212> PRT
<213> Homo sapiens

<400> 175

Phe Thr Val Asp Arg Pro Phe Leu Phe Leu Ile Tyr Glu His Arg
1 5 10 15

<210> 176
<211> 11
<212> PRT
<213> Homo sapiens

<400> 176

Gly Gly Ser Ile Phe Gly Leu Ala Pro Gly Lys
1 5 10

<210> 177
<211> 9
<212> PRT
<213> Homo sapiens

<400> 177

Gly Gln Gly Lys Pro Pro Val Trp Arg

1 5

<210> 178
<211> 31
<212> PRT
<213> Homo sapiens

<400> 178

Ala Val Gly Asp Lys Leu Pro Glu Cys Glu Ala Asp Asp Gly Cys Pro

Tyr Leu Gly Glu Glu Tyr Val Lys
1 5

<210> 183
<211> 22
<212> PRT
<213> Homo sapiens

<400> 183

Ser Met Gly Gly Lys Glu Asp Leu Ile Trp Glu Leu Leu Asn Gln Ala
1 5 10 15

Gln Glu His Phe Gly Lys
20

<210> 184
<211> 15
<212> PRT
<213> Homo sapiens

<400> 184

Leu Cys Met Gly Ser Gly Leu Asn Leu Cys Glu Pro Asn Asn Lys
1 5 10 15

<210> 185
<211> 6
<212> PRT
<213> Homo sapiens

<400> 185

Asp Ser Ser Leu Cys Lys
1 5

<210> 186
<211> 8
<212> PRT
<213> Homo sapiens

<400> 186

Gln Ile Asn Asp Tyr Val Glu Lys
1 5

<210> 187
<211> 6
<212> PRT
<213> Homo sapiens

<400> 187

Phe Leu Glu Asp Val Lys
1 5

<210> 188

<211> 14

<212> PRT

<213> Homo sapiens

<400> 188

Ile Thr Pro Asn Leu Ala Glu Phe Ala Phe Ser Leu Tyr Arg
1 5 10

<210> 189

<211> 18

<212> PRT

<213> Homo sapiens

<400> 189

Leu Tyr His Ser Glu Ala Phe Thr Val Asn Phe Gly Asp Thr Glu Glu
1 5 10 15

Ala Lys

<210> 190

<211> 18

<212> PRT

<213> Homo sapiens

<400> 190

Val Phe Ser Asn Gly Ala Asp Leu Ser Gly Val Thr Glu Glu Ala Pro
1 5 10 15

Leu Lys

<210> 191

<211> 9

<212> PRT

<213> Homo sapiens

<400> 191

Lys Gln Ile Asn Asp Tyr Val Glu Lys

1

5

<210> 192
<211> 10
<212> PRT
<213> Homo sapiens

<400> 192

Ser Val Leu Gly Gln Leu Gly Ile Thr Lys
1 5 10

<210> 193
<211> 9
<212> PRT
<213> Homo sapiens

<400> 193

Lys Gln Ile Asn Asp Tyr Val Glu Lys
1 5

<210> 194
<211> 15
<212> PRT
<213> Homo sapiens

<400> 194

Thr Asp Thr Ser His His Asp Gln Asp His Pro Thr Phe Asn Lys
1 5 10 15

<210> 195
<211> 7
<212> PRT
<213> Homo sapiens

<400> 195

Ser Pro Leu Phe Met Gly Lys
1 5

<210> 196
<211> 8
<212> PRT
<213> Homo sapiens

<400> 196

Ser Ala Ser Leu His Leu Pro Lys
1 5

<210> 197
<211> 8
<212> PRT
<213> Homo sapiens

<400> 197

Ser Ala Ser Leu His Leu Pro Lys
1 5

<210> 198
<211> 8
<212> PRT
<213> Homo sapiens

<400> 198

Trp Glu Arg Pro Phe Glu Val Lys
1 5

<210> 199
<211> 8
<212> PRT
<213> Homo sapiens

<400> 199

Ala Val Leu Thr Ile Asp Glu Lys
1 5

<210> 200
<211> 10
<212> PRT
<213> Homo sapiens

<400> 200

Glu Asp Pro Gln Gly Asp Ala Ala Gln Lys
1 5 10

<210> 201
<211> 22
<212> PRT
<213> Homo sapiens

<400> 201

Gly Thr Glu Ala Ala Gly Ala Met Phe Leu Glu Ala Ile Pro Met Ser
1 5 10 15

Ile Pro Pro Glu Val Lys

<210> 202
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 202

Asp	Thr	Glu	Glu	Glu	Asp	Phe	His	Val	Asp	Gln	Val	Thr	Thr	Val	Lys
1				5					10					15	

<210> 203
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 203

Gln	Ile	Asn	Asp	Tyr	Val	Glu	Lys
1			5				

<210> 204
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 204

Phe	Leu	Glu	Asn	Glu	Asp	Arg	Arg
1			5				

<210> 205
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 205

Lys	Leu	Ser	Ser	Trp	Val	Leu	Leu	Met	Lys
1			5					10	

<210> 206
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 206

Thr	Leu	Asn	Gln	Pro	Asp	Ser	Gln	Leu	Gln	Leu	Thr	Thr	Gly	Asn	Gly
1			5					10						15	

Leu Phe Leu Ser Glu Gly Leu Lys
20

<210> 207
<211> 11
<212> PRT
<213> Homo sapiens

<400> 207

Leu Val Asp Lys Phe Leu Glu Asp Val Lys Lys
1 5 10

<210> 208
<211> 5
<212> PRT
<213> Homo sapiens

<400> 208

Val Pro Met Met Lys
1 5

<210> 209
<211> 17
<212> PRT
<213> Homo sapiens

<400> 209

Glu Leu Asp Arg Asp Thr Val Phe Ala Leu Val Asn Tyr Ile Phe Phe
1 5 10 15

Lys

<210> 210
<211> 19
<212> PRT
<213> Homo sapiens

<400> 210

Leu Tyr His Ser Glu Ala Phe Thr Val Asn Phe Gly Asp Thr Glu Glu
1 5 10 15

Ala Lys Lys

<210> 211
<211> 34
<212> PRT
<213> Homo sapiens

<400> 211

Met Phe Asn Ile Gln His Cys Lys Lys Leu Ser Ser Trp Val Leu Leu
1 5 10 15

Met Lys Tyr Leu Gly Asn Ala Thr Ala Ile Phe Phe Leu Pro Asp Glu
20 25 30

Gly Lys

<210> 212
<211> 6
<212> PRT
<213> Homo sapiens

<400> 212

Val Ser Val Asn Glu Arg
1 5

<210> 213
<211> 6
<212> PRT
<213> Homo sapiens

<400> 213

Lys Gln Trp Ile Asn Lys
1 5

<210> 214
<211> 9
<212> PRT
<213> Homo sapiens

<400> 214

His Thr Phe Cys Ala Gly Met Ser Lys
1 5

<210> 215
<211> 10
<212> PRT
<213> Homo sapiens

<400> 215

His Tyr Glu Gly Ser Thr Val Pro Glu Lys
1 5 10

<210> 216

<211> 12

<212> PRT

<213> Homo sapiens

<400> 216

Thr Glu Gly Asp Gly Val Tyr Thr Leu Asn Asp Lys
1 5 10

<210> 217

<211> 12

<212> PRT

<213> Homo sapiens

<400> 217

Asp Ile Ala Pro Thr Leu Thr Leu Tyr Val Gly Lys
1 5 10

<210> 218

<211> 34

<212> PRT

<213> Homo sapiens

<400> 218

Tyr Gln Glu Asp Thr Cys Tyr Gly Asp Ala Gly Ser Ala Phe Ala Val
1 5 10 15

His Asp Leu Glu Glu Asp Thr Trp Tyr Ala Thr Gly Ile Leu Ser Phe
20 25 30

Asp Lys

<210> 219

<211> 11

<212> PRT

<213> Homo sapiens

<400> 219

His Tyr Glu Gly Ser Thr Val Pro Glu Lys Lys

1 5 10

<210> 220
<211> 13
<212> PRT
<213> Homo sapiens

<400> 220

Thr Glu Gly Asp Gly Val Tyr Thr Leu Asn Asp Lys Lys
1 5 10

<210> 221
<211> 7
<212> PRT
<213> Homo sapiens

<400> 221

Gln Leu Val Glu Ile Glu Lys
1 5

<210> 222
<211> 6
<212> PRT
<213> Homo sapiens

<400> 222

Val Ser Val Asn Glu Arg
1 5

<210> 223
<211> 7
<212> PRT
<213> Homo sapiens

<400> 223

Asn Pro Ala Asn Pro Val Gln
1 5

<210> 224
<211> 7
<212> PRT
<213> Homo sapiens

<400> 224

Asp Tyr Ala Glu Val Gly Arg
1 5

<210> 225
<211> 12
<212> PRT
<213> Homo sapiens

<400> 225

Ser Cys Ala Val Ala Glu Tyr Gly Val Tyr Val Lys
1 5 10

<210> 226
<211> 20
<212> PRT
<213> Homo sapiens

<400> 226

Ser Pro Val Gly Val Gln Pro Ile Leu Asn Glu His Thr Phe Cys Ala
1 5 10 15

Gly Met Ser Lys
20

<210> 227
<211> 10
<212> PRT
<213> Homo sapiens

<400> 227

Val Thr Ser Ile Gln Asp Trp Val Gln Lys
1 5 10

<210> 228
<211> 17
<212> PRT
<213> Homo sapiens

<400> 228

Ala Val Gly Asp Lys Leu Pro Glu Cys Glu Ala Val Cys Gly Lys Pro
1 5 10 15

Lys

<210> 229
<211> 9
<212> PRT
<213> Homo sapiens

<400> 229

Val Gly Tyr Val Ser Gly Trp Gly Arg
1 5

<210> 230

<211> 13

<212> PRT

<213> Homo sapiens

<400> 230

Asp Ile Ala Pro Thr Leu Thr Leu Tyr Val Gly Lys Lys
1 5 10

<210> 231

<211> 9

<212> PRT

<213> Homo sapiens

<400> 231

Ile Leu Gly Gly His Leu Asp Ala Lys
1 5

<210> 232

<211> 4

<212> PRT

<213> Homo sapiens

<400> 232

Asn Tyr Tyr Lys
1

<210> 233

<211> 26

<212> PRT

<213> Homo sapiens

<400> 233

Leu Pro Glu Cys Glu Ala Asp Asp Gly Cys Pro Lys Pro Pro Glu Ile
1 5 10 15

Ala His Gly Tyr Val Glu His Ser Val Arg
20 25

<210> 234

<211> 31

<212> PRT
<213> Homo sapiens

<400> 234

Val Asp Ser Gly Asn Asp Val Thr Asp Ile Ala Asp Asp Gly Cys Pro
1 5 10 15

Lys Pro Pro Glu Ile Ala His Gly Tyr Val Glu His Ser Val Arg
20 25 30

<210> 235
<211> 15
<212> PRT
<213> Homo sapiens

<400> 235

Leu Arg Thr Glu Gly Asp Gly Val Tyr Thr Leu Asn Asp Lys Lys
1 5 10 15

<210> 236
<211> 28
<212> PRT
<213> Homo sapiens

<400> 236

Gln Lys Asp Val Asp Lys Glu Phe Tyr Leu Phe Pro Thr Val Phe Asp
1 5 10 15

Glu Asn Glu Ser Leu Leu Leu Glu Asp Asn Ile Arg
20 25

<210> 237
<211> 20
<212> PRT
<213> Homo sapiens

<400> 237

Ala Glu Glu Glu His Leu Gly Ile Leu Gly Pro Gln Leu His Ala Asp
1 5 10 15

Val Gly Asp Lys
20

<210> 238
<211> 13

<212> PRT
<213> Homo sapiens

<400> 238

Val Asp Lys Asp Asn Glu Asp Phe Gln Glu Ser Asn Arg
1 5 10

<210> 239
<211> 10
<212> PRT
<213> Homo sapiens

<400> 239

Ile Tyr His Ser His Ile Asp Ala Pro Lys
1 5 10

<210> 240
<211> 8
<212> PRT
<213> Homo sapiens

<400> 240

Thr Tyr Cys Ser Glu Pro Glu Lys
1 5

<210> 241
<211> 14
<212> PRT
<213> Homo sapiens

<400> 241

Glu Val Gly Pro Thr Asn Ala Asp Pro Val Cys Leu Ala Lys
1 5 10

<210> 242
<211> 14
<212> PRT
<213> Homo sapiens

<400> 242

Asp Ile Ala Ser Gly Leu Ile Gly Pro Leu Ile Ile Cys Lys
1 5 10

<210> 243
<211> 19
<212> PRT

<213> Homo sapiens

<400> 243

Leu Ile Ser Val Asp Thr Glu His Ser Asn Ile Tyr Leu Gln Asn Gly
1 5 10 15

Pro Asp Arg

<210> 244

<211> 35

<212> PRT

<213> Homo sapiens

<400> 244

Asn Met Ala Thr Arg Pro Tyr Ser Ile His Ala His Gly Val Gln Thr
1 5 10 15

Glu Ser Ser Thr Val Thr Pro Thr Leu Pro Gly Glu Thr Leu Thr Tyr
20 25 30

Val Trp Lys
35

<210> 245

<211> 12

<212> PRT

<213> Homo sapiens

<400> 245

Ala Leu Tyr Leu Gln Tyr Thr Asp Glu Thr Phe Arg
1 5 10

<210> 246

<211> 8

<212> PRT

<213> Homo sapiens

<400> 246

Gln Tyr Thr Asp Ser Thr Phe Arg
1 5

<210> 247

<211> 10

<212> PRT

<213> Homo sapiens

<400> 247

Met Tyr Tyr Ser Ala Val Asp Pro Thr Lys
1 5 10

<210> 248

<211> 20

<212> PRT

<213> Homo sapiens

<400> 248

His Tyr Tyr Ile Gly Ile Ile Glu Thr Thr Trp Asp Tyr Ala Ser Asp
1 5 10 15

His Gly Glu Lys
20

<210> 249

<211> 23

<212> PRT

<213> Homo sapiens

<400> 249

Gly Pro Glu Glu Glu His Leu Gly Ile Leu Gly Pro Val Ile Trp Ala
1 5 10 15

Glu Val Gly Asp Thr Ile Arg
20

<210> 250

<211> 10

<212> PRT

<213> Homo sapiens

<400> 250

Glu Tyr Thr Asp Ala Ser Phe Thr Asn Arg
1 5 10

<210> 251

<211> 20

<212> PRT

<213> Homo sapiens

<400> 251

Lys Leu Ile Ser Val Asp Thr Glu His Ser Asn Ile Tyr Leu Gln Asn

1 5 10 15

Gly Pro Asp Arg
20

<210> 252
<211> 19
<212> PRT
<213> Homo sapiens

<400> 252

Met His Ser Met Asn Gly Phe Met Tyr Gly Asn Gln Pro Gly Leu Thr
1 5 10 15

Met Cys Lys

<210> 253
<211> 14
<212> PRT
<213> Homo sapiens

<400> 253

Asp Leu Tyr Ser Gly Leu Ile Gly Pro Leu Ile Val Cys Arg
1 5 10

<210> 254
<211> 13
<212> PRT
<213> Homo sapiens

<400> 254

Gly Ala Tyr Pro Leu Ser Ile Glu Pro Ile Gly Val Arg
1 5 10

<210> 255
<211> 5
<212> PRT
<213> Homo sapiens

<400> 255

Val Phe Asn Pro Arg
1 5

<210> 256
<211> 21

<212> PRT
<213> Homo sapiens

<400> 256

Lys Ala Glu Glu Glu His Leu Gly Ile Leu Gly Pro Gln Leu His Ala
1 5 10 15

Asp Val Gly Asp Lys
20

<210> 257
<211> 13
<212> PRT
<213> Homo sapiens

<400> 257

Arg Gln Ser Glu Asp Ser Thr Phe Tyr Leu Gly Glu Arg
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<400> 258

Tyr Thr Val Asn Gln Cys Arg
1 5

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Val Asp Ser His Phe Arg
1 5

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<400> 260

Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe
1 5 10

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Asn Glu Cys Phe Leu Gln His Lys
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<400> 262

Gln Thr Ala Leu Val Glu Leu Val Lys
1 5

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Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro Gln Asn
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Ala Asp Leu Ser Gly Ile Thr Gly Ala Arg
1 5 10

<210> 265
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<400> 265

Ala Val Leu Asp Val Phe Glu Glu Gly Thr Glu Ala Ser Ala Ala Thr
1 5 10 15

Ala Val Lys

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Met Glu Glu Val Glu Ala Met Leu Leu Pro Glu Thr Leu Lys Arg
1 5 10 15

<210> 267
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<400> 267

Asn Leu Ala Val Ser Gln Val Val His Lys
1 5 10

<210> 268
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<213> Homo sapiens

<400> 268

Ala Asp Leu Ser Gly Ile Thr Gly Ala Arg
1 5 10

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<400> 269

Ile Thr Leu Leu Ser Ala Leu Val Glu Thr Arg
1 5 10

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<400> 270

Asp Glu Glu Leu Ser Cys Thr Val Val Glu Leu Lys
1 5 10

<210> 271
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<400> 271

Phe Asn Arg Pro Phe Leu Met Ile Ile Val Pro Thr Asp Thr Gln Asn
1 5 10 15

Ile Phe Phe Met Ser Lys
20

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<400> 272

Leu Tyr Gly Ser Glu Ala Phe Ala Thr Asp Phe Gln Asp Ser Ala Ala
1 5 10 15

Ala Lys

<210> 273
<211> 20
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Asp Tyr Asn Leu Asn Asp Ile Leu Leu Gln Leu Gly Ile Glu Glu Ala
1 5 10 15

Phe Thr Ser Lys
20

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<400> 274

Lys Leu Ile Asn Asp Tyr Val Lys
1 5

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Asp Ser Leu Glu Phe Arg
1 5

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Asn Ala Leu Thr Gly Leu Pro Pro Gly Leu Phe Gln Ala Ser Ala Thr
1 5 10 15

Leu Asp Thr Leu Val Leu Lys
20

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Asp Cys Gln Val Phe Arg
1 5

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Gly Gln Thr Leu Leu Ala Val Ala Lys
1 5

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<400> 279

Gly Pro Leu Gln Leu Glu Arg
1 5

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Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp Gln Asn Leu
1 5 10 15

Ser Asp Leu Tyr Arg
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Leu Gln Glu Leu His Leu Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro
1 5 10 15

Glu Phe Leu Arg Pro Val Pro Gln Leu Arg
20 25

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<211> 18
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<400> 282

Thr Leu Asp Leu Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu
1 5 10 15

Leu Arg

<210> 283
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<400> 283

Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg
1 5 10

<210> 284
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<400> 284

Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg
1 5 10

<210> 285
<211> 8
<212> PRT
<213> Homo sapiens

<400> 285

Cys Ala Gly Pro Glu Ala Val Lys
1 5

<210> 286
<211> 16
<212> PRT
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<400> 286

Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu His Gly Leu Lys
1 5 10 15

<210> 287
<211> 14
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<213> Homo sapiens

<400> 287

Glu Gln Leu Gly Glu Phe Tyr Glu Ala Leu Asp Cys Leu Arg
1 5 10

<210> 288
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Lys Asp Lys Cys Glu Pro Leu Glu Lys
1 5

<210> 289
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<212> PRT
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Cys Glu Pro Leu Glu Lys
1 5

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Lys Asp Lys Cys Glu Pro Leu Glu Lys
1 5

<210> 291
<211> 27
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<400> 291

Thr Tyr Met Leu Ala Phe Asp Val Asn Asp Glu Lys Asn Trp Gly Leu
1 5 10 15

Ser Val Tyr Ala Asp Lys Pro Glu Thr Thr Lys
20 25

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<400> 292

Thr Tyr Met Leu Ala Phe Asp Val Asn Asp Glu Lys
1 5 10

<210> 293
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<400> 293

Asp Lys Cys Glu Pro Leu Glu Lys
1 5

<210> 294
<211> 10
<212> PRT
<213> Homo sapiens

<400> 294

Ser Asp Val Val Tyr Thr Asp Trp Lys Lys
1 5 10

<210> 295
<211> 29
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<222> (27)..(27)
<223> carboxymethylation

<400> 295

Asn Trp Gly Leu Ser Val Tyr Ala Asp Lys Pro Glu Thr Thr Lys Glu
1 5 10 15

Gln Leu Gly Glu Phe Tyr Glu Ala Leu Asp Cys Leu Arg
20 25

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<400> 296

Asp Thr Leu Met Ile Ser Arg
1 5

<210> 297
<211> 30
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<213> Homo sapiens

<400> 297

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
1 5 10 15

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
20 25 30

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<211> 19
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<400> 298

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
1 5 10 15

Glu Val Lys

<210> 299
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<400> 299

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys
1 5 10

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Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
1 5 10

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Ser Asn Leu Asp Glu Asp Ile Ile Ala Glu Glu Asn Ile Val Ser Arg
1 5 10 15

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Val Val Pro Glu Gly Ile Arg

1 5

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Phe Ala Leu Val Arg
1 5

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<400> 304

Cys Leu Ala Pro Leu Glu Gly Ala Arg
1 5

<210> 305
<211> 15
<212> PRT
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<400> 305

Leu Glu Leu His Val Asp Gly Pro Pro Pro Arg Pro Gln Leu Arg
1 5 10 15

<210> 306
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Ile Phe Phe His Leu Asn Ala Val Ala Leu Gly Asp Gly Gly His Tyr
1 5 10 15

Thr Cys Arg

<210> 307
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<400> 307

Val Glu Ile Asp Thr Lys
1 5

<210> 308
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<400> 308

Asp Asp Glu Glu Phe Ile Glu Ser Asn Lys
1 5 10

<210> 309
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<213> Homo sapiens

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Val Tyr Pro Gly Glu Gln Tyr Thr Tyr Met Leu Leu Ala Thr Glu Glu
1 5 10 15

Gln Ser Pro Gly Glu Gly Asp Gly Asn Cys Val Thr Arg
20 25

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<222> (3)..(3)
<223> carboxymethylation

<400> 310

Thr Tyr Cys Ser Glu Pro Glu Lys Val Asp Lys Asp Asn Glu Asp Phe
1 5 10 15

Gln Glu Ser Asn Arg
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<210> 311
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<212> PRT
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<400> 311

Lys Ala Leu Tyr Leu Gln Tyr Thr Asp Glu Thr Phe Arg
1 5 10

<210> 312

<211> 16

<212> PRT

<213> Homo sapiens

<400> 312

Asp Trp His Gly Val Pro Gly Gln Val Asp Ala Ala Met Ala Gly Arg
1 5 10 15

<210> 313

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<212> PRT

<213> Homo sapiens

<400> 313

Ile Tyr Ile Ser Gly Met Ala Pro Arg
1 5

<210> 314

<211> 7

<212> PRT

<213> Homo sapiens

<400> 314

Leu Ala Ile Pro Glu Gly Lys
1 5

<210> 315

<211> 10

<212> PRT

<213> Homo sapiens

<400> 315

Ser Pro Ala Phe Thr Asp Leu His Leu Arg
1 5 10

<210> 316

<211> 7

<212> PRT

<213> Homo sapiens

<400> 316

Val Ala Ala Glu Asp Trp Lys
1 5

<210> 317
<211> 17
<212> PRT
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<400> 317

Gln Glu Pro Ser Gln Gly Thr Thr Thr Phe Ala Val Thr Ser Ile Leu
1 5 10 15

Arg

<210> 318
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<212> PRT
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<400> 318

Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg
1 5 10

<210> 319
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<212> PRT
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<400> 319

Gln Glu Pro Ser Gln Gly Thr Thr Thr Phe Ala Val Thr Ser Ile Leu
1 5 10 15

Arg

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<400> 320

Leu Ile Cys Gln Ala Thr Gly Phe Ser Pro Arg
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 <222> (24)..(24)
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<400> 321

Tyr Ala Ala Thr Ser Gln Val Leu Leu Pro Ser Lys Asp Val Met Gln
 1 5 10 15

Gly Thr Asp Glu His Val Val Cys Lys
 20 25

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Ser Lys Leu Ile Cys Gln Ala Thr Gly Phe Ser Pro Arg
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<210> 323
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<400> 323

Ser Leu Gly Glu Cys Cys Asp Val Glu Asp Ser Thr Thr Cys Phe Asn
 1 5 10 15

Ala Lys

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Val Leu Glu Pro Thr Leu Lys
1 5

<210> 325
<211> 22
<212> PRT
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<400> 325

Val Pro Thr Ala Asp Leu Glu Asp Val Leu Pro Leu Ala Glu Asp Ile
1 5 10 15

Thr Asn Ile Leu Ser Lys
20

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<211> 19
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<400> 326

Leu Ala Val Thr Thr His Gly Leu Pro Cys Leu Ala Trp Ala Ser Ala
1 5 10 15

Gln Ala Lys

<210> 327
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<400> 327

Leu Ser Pro Leu Gly Glu Glu Met Arg
1 5

<210> 328
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<400> 328

Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro Gly Ala Val Thr
1 5 10 15

Val Ala Trp Lys
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<400> 329

Leu Thr Val Leu Gly Gln Pro Lys
1 5

<210> 330

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<212> PRT

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<400> 330

Leu Cys Gln Asp Leu Gly Pro Gly Ala Phe Arg
1 5 10

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Phe Ala Phe Asn Leu Tyr Arg
1 5

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Glu Val Leu Leu Pro Lys
1 5

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Gln Lys Trp Glu Ala Glu Pro Val Tyr Val Gln Arg
1 5 10

<210> 334
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<400> 334

Ser Asp Val Met Tyr Thr Asp Trp Lys
1 5

<210> 335
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<400> 335

Glu Gln Ile Asn Asn Tyr Val Glu Lys
1 5

<210> 336
<211> 20
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Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu
1 5 10 15

Gln Asp Ser Lys
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<210> 337
<211> 20
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<400> 337

Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu
1 5 10 15

Gln Asp Ser Lys
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Thr Gln Gln Arg Asn Asn
1 5

<210> 339
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Leu Glu Leu Ser Gln Arg
1 5

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<400> 340

Leu Arg Thr Glu Gly Asp Gly Val Tyr Thr Leu Asn Asp Lys
1 5 10

<210> 341
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<400> 341

Lys Gln Leu Val Glu Ile Glu Lys
1 5

<210> 342
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<400> 342

Ser Val Pro Pro Ser Ala Ser His Val Ala Pro Thr Glu Thr Phe Thr
1 5 10 15

Tyr Glu Trp Thr Val Pro Lys
20

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<400> 343

Asn Asn Glu Gly Thr Tyr Tyr Ser Pro Asn Tyr Asn Pro Gln Ser Arg
1 5 10 15

<210> 344
<211> 15
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<213> Homo sapiens

<400> 344

Val Phe Ala Ile Pro Pro Ser Phe Ala Ser Ile Phe Leu Thr Lys
1 5 10 15

<210> 345
<211> 25
<212> PRT
<213> Homo sapiens

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His Tyr Thr Asn Pro Ser Gln Asp Val Thr Val Pro Cys Pro Val Pro
1 5 10 15

Pro Pro Pro Pro Cys Cys His Pro Arg
20 25

<210> 346
<211> 19
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<400> 346

Val Val Ser Val Leu Thr Val Leu His Gln Asn Trp Leu Asp Gly Lys
1 5 10 15

Glu Tyr Lys

<210> 347
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<212> PRT
<213> Homo sapiens

<400> 347

Asp Phe Thr Cys Val His Gln Ala Leu Lys
1 5 10

<210> 348
<211> 9
<212> PRT
<213> Homo sapiens

<400> 348

Leu Leu Ile Tyr Gly Ala Ser Ser Arg
1 5

<210> 349
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<400> 349

Lys Ala Ala Cys Leu Asp Ile Leu Met Leu Arg
1 5 10

<210> 350
<211> 15
<212> PRT
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<400> 350

Asp Val Trp Gly Ile Glu Gly Pro Ile Asp Ala Ala Phe Thr Arg
1 5 10 15

<210> 351
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<212> PRT
<213> Homo sapiens

<400> 351

Glu Asp Thr Asn Lys Trp Lys
1 5

<210> 352

<211> 19
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<400> 352

Ala Asn Ala Gly Lys Pro Lys Asp Pro Thr Phe Ile Pro Ala Pro Ile
1 5 10 15

Gln Ala Lys

<210> 353
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<400> 353

Ala Val Tyr Asp Gln Ser Ala Thr Ala
1 5

<210> 354
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<400> 354

Asp Ser Ser Thr Trp Leu Thr Ala Phe Val Leu Lys
1 5 10

<210> 355
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<212> PRT
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<400> 355

Pro Met Pro Val Leu Leu Met Gly Gln Ala
1 5 10

<210> 356
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<400> 356

Ser Glu Thr Glu Ile His Gln Gly Phe Gln His Leu His Gln Leu Phe
1 5 10 15

Ala Lys

<210> 357
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<400> 357

Lys Tyr Phe Ile Asp Phe Val Ala Arg
1 5

<210> 358
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<223> carboxymethylation

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Glu Glu Pro Ile Pro Cys Thr Ala His Trp His Phe Gly Gln
1 5 10

<210> 359
<211> 13
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<213> Homo sapiens

<400> 359

His Asn Leu Lys Asp Ala Gly Glu Ala Glu Glu Gly Lys
1 5 10

<210> 360
<211> 13
<212> PRT
<213> Homo sapiens

<400> 360

Gly Leu Ser Arg Thr Ser Met Lys Pro Arg Ser Ser Arg
1 5 10

<210> 361
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<212> PRT
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<400> 361

Asp Ser Ser Tyr Met Pro Ser
1 5

<210> 362
<211> 5
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<400> 362

Leu Pro Leu Ile Lys
1 5

<210> 363
<211> 10
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<213> Homo sapiens

<400> 363

Ile Ala Glu Phe Ala Phe Glu Tyr Ala Arg
1 5 10

<210> 364
<211> 10
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<213> Homo sapiens

<400> 364

Glu Gly Lys Leu Glu Asn Gly Tyr Arg Lys
1 5 10

<210> 365
<211> 15
<212> PRT
<213> Homo sapiens

<400> 365

Pro Gln Leu Asp Leu Phe Ser Cys Met Leu Lys His Arg Leu Lys
1 5 10 15

<210> 366
<211> 21
<212> PRT
<213> Homo sapiens

<400> 366

Glu Ala Pro Thr Ser Leu Ser Gln Leu Leu Asp Asn Ser Gly Ala Pro
1 5 10 15

Asn Val Thr Ile Lys
20

<210> 367

<211> 9

<212> PRT

<213> Homo sapiens

<400> 367

Lys Val Asn Glu Lys Asp Val Asp Lys
1 5

<210> 368

<211> 17

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<222> (5)..(5)

<223> carboxymethylation

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Gly Gln Glu Leu Cys Ala Asp Tyr Ser Glu Asn Thr Phe Thr Glu Tyr
1 5 10 15

Lys

<210> 369

<211> 9

<212> PRT

<213> Homo sapiens

<400> 369

Lys Asn Gly Asn Val Ala Asn Tyr Val
1 5

<210> 370

<211> 12

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<213> Homo sapiens

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<222> (1)..(1)

<223> oxidation

<400> 370

Met Pro Val Ile Asn Ile Glu Asp Leu Thr Glu Lys
1 5 10

<210> 371

<211> 10

<212> PRT

<213> Homo sapiens

<400> 371

Leu Gly Lys Ser Val Val Ala Lys Val Lys
1 5 10

<210> 372

<211> 7

<212> PRT

<213> Homo sapiens

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<222> (2)..(2)

<223> oxidation

<400> 372

Ile Met Lys Asp Val Gln Lys
1 5

<210> 373

<211> 16

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<222> (8)..(8)

<223> carboxymethylation

<400> 373

Ala Asn Pro Gly Tyr Lys Trp Cys Pro Thr Thr Asn Lys Pro Val Lys
1 5 10 15

<210> 374
<211> 12
<212> PRT
<213> Homo sapiens

<400> 374

Leu Gly Asp Phe Gly Ile Arg Leu Leu Cys Val Gly
1 5 10

<210> 375
<211> 16
<212> PRT
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<400> 375

Phe Asp Asp Gln Asn Leu Arg Ser Val Asn Gly Ala Glu Ile Thr Met
1 5 10 15

<210> 376
<211> 10
<212> PRT
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<400> 376

Glu Leu Asp Ser Gln Leu Asn Glu Pro Arg
1 5 10

<210> 377
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<400> 377

Lys Thr Thr Asn Gln Asn Val Ile Lys ,
1 5

<210> 378
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<400> 378

Leu Ser Ser Trp Val Leu Leu Met Lys
1 5

<210> 379
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<400> 379

Thr Leu Val Ile Thr Ser Thr Pro Ala Ser Pro Asn Arg
1 5 10

<210> 380
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<400> 380

Lys Gly Ala Ala Lys Val Met Val Thr Asn Val
1 5 10

<210> 381
<211> 15
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<223> oxidation

<400> 381

Thr Glu Met Arg Asn Ser Glu Asn Lys Asn Ile Phe Cys Val Arg
1 5 10 15

<210> 382
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<212> PRT
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<400> 382

Thr Gln Thr Val Glu Cys Thr Gln Thr Gly Ser Val
1 5 10

<210> 383
<211> 12
<212> PRT
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<400> 383

Lys Met Lys Glu Ala Ala Gln Arg Tyr Gln Tyr Ala
1 5 10

<210> 384
<211> 11
<212> PRT
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<400> 384

Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg
1 5 10

<210> 385
<211> 27
<212> PRT
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<400> 385

Met Gly Pro Gly Gly Gly Lys Ala Lys Ala Leu Gly Gly Ala Gly Ser
1 5 10 15

Gly Ser Lys Gly Ser Ala Gly Gly Gly Ser Lys
20 25

<210> 386
<211> 19
<212> PRT
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<400> 386

Thr Gly Asn Asn Arg Ile Asn Ile Thr Glu Thr Gly Gln Leu Met Val
1 5 10 15

Lys Asp Phe

<210> 387
<211> 7
<212> PRT
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Leu Glu Leu Phe Met Gly Lys
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Glu Leu Gly Val Asp Gln Glu Ser Glu Glu Gly Lys Gly Lys Thr Ser
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Pro Asp Lys Gln Lys
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Asn Ala Asn Ala Val Cys Asp Thr
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Met Pro Gln Val Phe Asn Phe Leu
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Ile Ala Pro Gln Leu Ser Thr Glu Glu Leu Val Ser Leu Gly Glu Lys
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Glu Cys Gly Lys Ala Phe Tyr Ser Gly Ser Ser Leu Thr Gln His Gln
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Arg

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Phe Val Pro Gln Asp Val Pro Pro Glu Pro Lys
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Leu Thr Leu Asp Glu Lys
1 5

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<400> 395

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
1 5 10 15

Asp Arg